BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Office of the Executive Engineer Dasarahalli Division

D.T-SCHDULE
Draft Tender

Nam eof Work: Sinking of borewell and providing Pumps & motors and laying of pipeline at T,Dasarahalli Ward No.15

Job code: 015-21-000007

Sl	Description of Work	Unit	Qty	Sanctioned Rates	
				In figures (Rs)	In Words (Rs)
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation. Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc	Each	3.00		
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,)	Each			
	0.00 to 50.00 Mtr.		150.00		
	50.00 to 100.00 Mtr.		150.00		
	100.00 to 150.00 Mtr.		150.00		
	150.00 to 200.00 Mtr.		150.00		
	200.00 to 250.00 Mtr.		150.00		
	250.00 to 300.00 Mtr.		150.00		
	300.00 to 350.00 Mtr.		150.00		

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	of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes. All shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.(exclusive of all taxes and duties).prices include Collar-Medium duty. 175mm dia x 5.4mm thick					
3		Rmt	150.00			
4	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	Rmt	18.00			
5	Providing and laying at site of work175mm thick MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	3.00			
6	Supply & delivery at site suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.5HP/13KW 35stage	Nos	3.00			
7	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe	Rmtr	900.00			
8	supply of 50mm M.S collars	Each	153.00			
9	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS: 8130-1984. and virgin grade PVC Sheated Suitable for working voltage upto 1100 Volts as per IS:694:1990. 3C X 6.0Sq.mm	Mtr	1920.00			

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10	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best ndigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star	Nos	3.00		
11	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm	Sqcm	66000.00		
12	Providing & Fixing of clamps set and borewell cap to the pump (MR)	Set	3.00		
13	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size-50mm	Nos	3.00		
14	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments,Size-50mm	Nos	3.00		
15	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI bend confirming to IS 1239-II, 1991 with latest amendments if any.	Nos	3.00		
16	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI union confirming to IS 1239-II, 1991 with latest amendments if any.	Nos	3.00		
17	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any.	Nos	3.00		
18	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.	Job	3.00		

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19	Labour charges for erection of indoor type panel board and meter board units with all necessary materials and labour tools and equipments including cement concrete for foundation/bed etc,complete as per specification, with testing of as per instructions of engineer incharge of work	Nos	3		
20	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required confirming to IEC 60898, 40 Amps DP	Each	3		
21	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable	Mtr	105		
22	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces	Mtr	105		
23	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm	Mtr	9		
24	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia	Job	3		
25	Providing,Supplying and fixing LT cast iron potheads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm	Nos	3		
26	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834, 3phase 400/440 volts grade,for power Factor improvement of roating machinery like indution motor	KVAR	3		
27	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches	Each	3		
28	KPTCL Deposit charges	L/s	3		
29	Borewell registration charges per Rs 1000 each for BWSSB	L/s	3		

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30	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinery soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications	Cum	392.85		
31	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering intotrenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete. PVC PIPES OF 6 Kg /Cm2-63mm Outer Dia	Rmt	582		
32	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications	Cum	43.65		
33	Cement Concrete Pavement :- Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement design mix M40 at 420 kg/cum Cement, C.A, 0.67 cum, F.A/ 0.44 cum and down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates @ 0.46 cum with superplastizer at 3lts conforming to IS 9103-1999 reaffirmed 2008. coarse and fine aggregate conforming to IS:383, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing, compound, finishing to lines and grades as per drawing complete as per specifications	Cum	65.48		
34	Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications	Cum	283.73		

Signature of the Contractor

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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು(ದಾ.ಬಿ)ರವರು
ದೃಢೀಕರಿಸಿಕೊಳ್ಳುವ ಷರತ್ತಿಗ ಒಳಪಡಿಸಿ ಡಿ.ಬಿ.ಎಸ್
ಅನುಮೋದಿಸಿದೆ.
ಕರದು ಟೆಂಡರ್ ಷೆಡ್ಯೂಲ್‌ನ್ನು ತಿದ್ದುಪಡಿ ಮಾಡದಂತೆ
ತಿದ್ದುಪಡಿ ಇಲ್ಲದೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ.
ತಿದ್ದುಪಡಿಗಳ ಒಟ್ಟು ಸಂಖ್ಯೆ:.....
ರದ್ದುಗೊಳಿಸಿರುವ ಒಟ್ಟು ಐಟಂಗಳ ಸಂಖ್ಯೆ:.....

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